

No. 693,410.

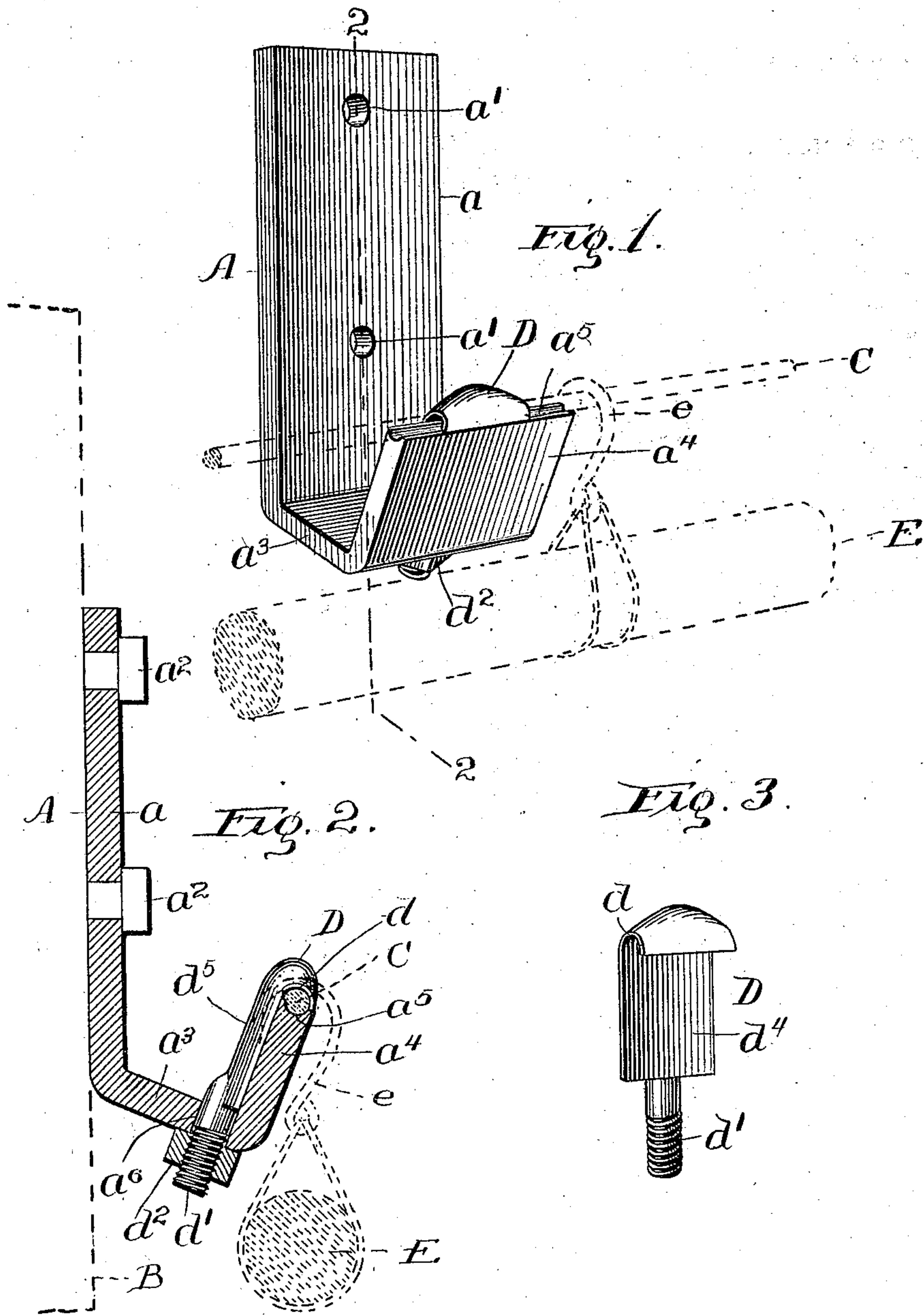
Patented Feb. 18, 1902.

S. S. LEONARD.

SUSPENSION CLAMP FOR ELECTRIC CONDUCTORS.

(Application filed Oct. 12, 1901.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

SYLVESTER S. LEONARD, OF CHICAGO, ILLINOIS.

SUSPENSION-CLAMP FOR ELECTRIC CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 693,410, dated February 18, 1902.

Application filed October 12, 1901. Serial No. 78,399. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER S. LEONARD, a subject of the King of Great Britain, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Suspension-Clamps for Electric Conductors, of which the following is a specification.

My invention relates to certain improvements in suspension-clamps for electric conductors of the class in which the clamps are secured to suitable means of support, as poles, and are designed to carry a wire cable, wire, or other suspending material upon which the conductor is supported.

The object of this invention is to simplify and cheapen the construction of clamps of this class and also to render more easy the putting up of the cable and conductor or the repairing of the suspension-strand from which the conductor is supported.

The invention has been illustrated in drawings furnished herewith by means of three figures, of which—

Figure 1 is a perspective view of the clamp in its preferred form; Fig. 2, a central vertical cross-section through the same, the line of section being indicated at 2 2 in Fig. 1; and Fig. 3 is a perspective view of a clamping-hook used in connection with this device.

Referring to these drawings, A represents the supporting member of the clamp, which is preferably constructed as shown, the upright portion or back a being formed with openings a' , through which bolts a^2 may be passed to secure the same upon the supporting-pole B. The lower portion of said back is bent outward to form an approximately horizontal portion a^3 , the end of which is bent up to form a supporting-hook a^4 , preferably extending upward at a slight inclination. In the upper edge of the said hook is formed a seat a^5 , in which rests the supporting-strand, (shown in dotted lines at C.) A clamping-hook D, Fig. 3, is employed to clamp the strand in place upon the outrigger, and, as shown, said hook is preferably formed with a seat d , adapted to impinge upon the strand, and with a screw-threaded shank d' , extending down through a hole a^6 in the portion a^3 . A nut d^2 , upon the screw-threaded end of the shank d' ,

furnishes means to securely clamp the hook in place upon the strand C.

The clamping-hook D is preferably formed with a flat face d^4 , adapted to rest against the upwardly-extending hook a^4 of the supporting member, and an opposite convex or rounded face d^5 . The flat face keeps the two hooks in the proper relation to clamp the supporting-wire, guiding the clamp-hook upon the other in the fastening or releasing of the supporting-cable.

The conductor is indicated by dotted lines at E and, as is shown, in structures of this class is hung from the supporting-strand C by hooks e . It is customary in hanging the conductor to fasten the hooks upon the cable and hang the same upon the supporting-strand C and then to stretch or tighten the conductor. In the case of a great many supporting-clamps now in practice it is necessary to provide a "lineman," whose duty it is to pass the hook over the clamps as the cable is stretched; but the convex faces of the clamping-hooks offer but little resistance to the sliding of the supporting-hooks along the supporting-cable, so that the conductor may be moved longitudinally without giving attention to each individual point of support. In case the strand C becomes broken or needs repair at any point or it becomes necessary that a portion of the supporting-strand be removed and a new one put in its place the nuts d^2 may be loosened sufficiently to allow the strand to be removed from its seat and the new one replaced, after which said nut may be again tightened up.

I recognize the possibility of more or less variation in the exact form of the various parts and for that reason do not limit myself thereto.

I claim as new and desire to secure by Letters Patent—

1. In a clamp of the class described, the combination with a supporting member, having an outwardly-extending portion and a portion extending upward therefrom and provided at the top of said upwardly-extending portion with a cable-seat, of a rigid clamping-hook upon one side of said upwardly-extending portion, said hook being so recurved and grooved at its end as to form a second cable-

seat registering with that upon the supporting member, the recurved end of said hook being rounded in the portion opposite said upwardly-extending portion; substantially as described.

2. In a device of the class described, the combination with a supporting member having an outwardly-extending portion and a portion extending upward from the outer end thereof, and provided with a seat upon its top, of a clamping-hook, resting against said upwardly-extending portion and forming a seat at the top thereof, said hook being rounded upon the side opposite the upwardly-extending portion, and being provided with means for drawing the clamping portion down upon the cable; substantially as described.

3. The combination with a member, A, adapted for attachment to a suitable support

and extending outward at a^3 , and upward at a^4 , and having a cable-seat, a^5 , in the top of the portion, a^4 , and a suitable perforation in the portion, a^3 , of the hook, D, provided with a flat side resting upon the portion, a^4 , the upper end forming a seat, d , rounded sides opposite the seat and the portion, a^4 , and a shank extending through the perforation and provided with a clamping-plate; substantially as described.

In witness whereof I have hereunto set my hand, at Chicago, in the county of Cook and State of Illinois, this 10th day of October, A. D. 1901.

SYLVESTER S. LEONARD.

Witnesses:

CHAS. O. SHERVEY,
S. BLISS.